

Claims: Claims 13-22 are amended in this office action response. Additions to claims are indicated by underlining. Deletions from claims are indicated by strikeouts. No claims are canceled in this office action response. Upon entry of this amendment, claims 13-22 will be pending in this application.

Listing of Claims:

1. (canceled)
2. (canceled)
3. (canceled)
4. (canceled)
5. (canceled)
6. (canceled)
7. (canceled)
8. (canceled)
9. (canceled)
10. (canceled)
11. (canceled)

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12. (canceled)

13. (currently amended) A system ~~for reducing artifacts from scanning an object,~~ comprising:

a moving mechanism to selectively move the object at a first substantially constant speed during scanning;

a scanning mechanism including an optical sensor, with the scanning mechanism to selectively move the optical sensor at a second substantially constant speed during the scanning and ~~with the optical sensor configured for measuring reflected light from the object;~~ and

~~a controller coupled to the moving mechanism and the scanning mechanism with the controller configured to actuate the moving mechanism to~~ replace first data from measurement of reflected light from a first section of the object, corresponding to a deceleration distance of the object, during deceleration of the object, with second data from measurement of reflected light from the first section during relative movement between the first section and the optical sensor at the first substantially constant speed or the second substantially constant speed ~~selectively move the object and with the controller configured to actuate the scanning mechanism to selectively move the optical sensor.~~

14. (currently amended) The system as recited in claim 13, wherein:

the controller includes a configuration to actuate the scanning mechanism to move the optical sensor in a first direction the object moves during the scanning for a first distance substantially equal to a sum of a the deceleration distance of the object and an acceleration distance of the object;

the configuration of the controller to cause the relative movement between the first section and the optical sensor at the first substantially constant speed or the second substantially constant speed includes a configuration to actuate the moving mechanism to move a the first section of the object ~~corresponding to the deceleration distance of the object~~ past the optical sensor at the first substantially constant speed in the first direction;

the controller includes a configuration to cause the measurement of the reflected light used to generate the second data from the first section with the optical sensor during the relative movement between the first section and the optical sensor at the first substantially constant speed; and
the object includes media.

15. (currently amended) The system as recited in claim 13, wherein:

the controller includes a configuration to actuate the moving mechanism to move the object in a first direction opposite a second direction that the object moves during scanning for a first distance substantially equal to a sum an acceleration distance of the object and a the deceleration distance of the object;

the controller includes a configuration to actuate the moving mechanism to move a the first section of the object corresponding to the deceleration distance of the object past the optical sensor at the first substantially constant speed in the second direction;

the controller includes a configuration to cause the measurement of the reflected light used to generate the second data from the first section with the optical sensor during the relative movement between the first section and the optical sensor at the first substantially constant speed; and
the object includes media.

16. (currently amended) The system as recited in claim 13, wherein:

the controller includes a configuration to actuate the scanning mechanism to move the optical sensor in a first direction, opposite a second direction the object moves during scanning, for a first distance substantially equal to a sum of an acceleration distance of the optical sensor and an acceleration distance of the object;

the configuration of the controller to cause the relative movement between the first section and the optical sensor at the first substantially constant speed or the second substantially constant speed includes a configuration to actuate the scanning mechanism to move the optical sensor in the second direction for a

second distance substantially equal to a sum of the acceleration distance of the object and a the deceleration distance of the object at the second substantially constant speed;

the controller includes a configuration to cause the measurement of the reflected light used to generate the second data with the optical sensor from a the first section of the object ~~corresponding to the deceleration distance of the object~~ and from a second section of the object corresponding to the acceleration distance of the object;

the controller includes a configuration to actuate the scanning mechanism to move the optical sensor in the first direction for a third distance substantially equal to a sum of a deceleration distance of the optical sensor and the deceleration distance of the object; and

the object includes media.

17. (currently amended) The system as recited in claim 13, wherein:

the controller includes a configuration to actuate the scanning mechanism to move the optical sensor in a first direction the object moves during scanning for a first distance substantially equal to a sum of a the deceleration distance of the object and an acceleration distance of the optical sensor;

the configuration of the controller to cause the relative movement between the first section and the optical sensor at the first substantially constant speed or the second substantially constant speed includes a configuration to actuate the scanning mechanism to move the optical sensor in a second direction, opposite the first direction, for a second distance substantially equal to a sum of the deceleration distance of the object and an acceleration distance of the object at the second substantially constant speed;

the controller includes a configuration to cause the measurement of the reflected light used to generate the second data with the optical sensor from a the first section of the object ~~corresponding to the deceleration distance of the object~~ and from a second section of the object corresponding to the acceleration distance of the object;

the controller includes a configuration to actuate the scanning mechanism to move the optical sensor in the first direction for a third distance substantially equal to a deceleration distance of the optical sensor and the acceleration distance of the object; and
the object includes media.

18. (currently amended) A scanning device for generating a digital representation of an image on media, comprising:

a scanning mechanism including an optical sensor with the scanning mechanism configured for selectively moving at a first substantially constant speed during scanning;

a moving mechanism configured for selectively moving the media at a second substantially constant speed during scanning; and

a controller ~~coupled to the scanning mechanism and the moving mechanism, with the controller~~ configured to replace first data from measurement of reflected light from a first section of the media, corresponding to a deceleration distance of the media, during deceleration of the media, with second data from measurement of reflected light from the first section during relative movement between the first section and the optical sensor at the first substantially constant speed or the second substantially constant speed ~~actuate the scanning mechanism to move the optical sensor and with the controller configured to actuate the moving mechanism to move the media.~~

19. (currently amended) The scanning device as recited in claim 18, wherein:

the controller includes a configuration to actuate the scanning mechanism to move the optical sensor in a first direction the media moves during the scanning for a first distance substantially equal to a sum of a the deceleration distance of the media and an acceleration distance of the media;

the configuration of the controller to cause the relative movement between the first section and the optical sensor at the first substantially constant speed or the second substantially constant speed includes a configuration to actuate the

moving mechanism to move a first section of the media ~~corresponding to the deceleration distance of the media~~ past the optical sensor at the first substantially constant speed in the first direction; and

the controller includes a configuration to cause the measurement of the reflected light used to generate the second data from the first section with the optical sensor during the relative movement between the first section and the optical sensor at the first substantially constant speed.

20. (currently amended) The scanning device as recited in claim 18, wherein:

the controller includes a configuration to actuate the moving mechanism to move the media in a first direction opposite a second direction that the media moves during scanning for a first distance substantially equal to a sum an acceleration distance of the media and a the deceleration distance of the media;

the controller includes a configuration to actuate the moving mechanism to move a the first section of the media ~~corresponding to the deceleration distance of the media~~ past the optical sensor at the first substantially constant speed in the second direction; and

the controller includes a configuration to cause the measurement of the reflected light used to generate the second data from the first section with the optical sensor during the relative movement between the first section and the optical sensor at the first substantially constant speed.

21. (currently amended) The scanning device as recited in claim 18, wherein:

the controller includes a configuration to actuate the scanning mechanism to move the optical sensor in a first direction, opposite a second direction the media moves during scanning, for a first distance substantially equal to a sum of an acceleration distance of the media and an acceleration distance of the optical sensor;

the configuration of the controller to cause the relative movement between the first section and the optical sensor at the first substantially constant speed or the second substantially constant speed includes a configuration to actuate the

scanning mechanism to move the optical sensor in the second direction for a second distance substantially equal to a sum of the acceleration distance of the media and a the deceleration distance of the media at the second substantially constant speed;

the controller includes a configuration to cause the measurement of reflected light used to generate the second data with the optical sensor from a the first section of the media ~~corresponding to the deceleration distance of the media~~ and from a second section of the media corresponding to the acceleration distance of the media; and

the controller includes a configuration to actuate the scanning mechanism to move the optical sensor in the first direction for a third distance substantially equal to a sum of a deceleration distance of the optical sensor and the deceleration distance of the media.

22. (currently amended) The scanning device as recited in claim 18, wherein:

the controller includes a configuration to actuate the scanning mechanism to move the optical sensor in a first direction the media moves during scanning for a first distance substantially equal to a sum of an acceleration distance of the optical sensor and a deceleration distance of the media;

the configuration of the controller to cause the relative movement between the first section and the optical sensor at the first substantially constant speed or the second substantially constant speed includes a configuration to actuate the scanning mechanism to move the optical sensor in a second direction, opposite the first direction, for a second distance substantially equal to the deceleration distance of the media and an acceleration distance of the media at the second substantially constant speed;

the controller includes a configuration to cause the measurement of the reflected light used to generate the second data with the optical sensor from a the first section of the media ~~corresponding to the deceleration distance of the media~~ and from a second section of the media corresponding to the acceleration distance of the media; and

the controller includes a configuration to actuate the scanning mechanism to move the optical sensor in the first direction for a third distance substantially equal to a deceleration distance of the optical sensor and the acceleration distance of the media.